

Modern Chip Seal Techniques

A one-day course

Fee: \$75

Time: 9:00 am to 4:00 pm

Class Size: 40

Locations: Classes are held in multiple locations around Washington State every year.

Instructor

Phil Barto P.E., Fleet Engineering Services. Mr. Barto is retired from Spokane County Road Department where he was Operations Engineer for 23 years.

Target Audience

Supervisors, lead workers and key employees on chip seal crews. May also be of interest to inspectors on chip seal projects.

Course Description

This course will cover the following topics:

- Light coverage of asphalt chemistry
- Light coverage of purpose of chip sealing
- Asphalt for Chip Sealing
 - Cut back asphalt
 - High float asphalt
 - Asphalt emulsions
 - Polymer modified emulsions
- Aggregates for Chip Sealing
 - Qualities of good chips
 - Single size chips
 - Graded chips
- Chip Seal design
 - Factors affecting asphalt shot rates
 - Factors affecting chip spread rates
 - McLeod design procedures
- Supervising Chip Seal crews
 - Planning and scheduling
 - Directing the work
 - Achieving production
 - Getting a quality job at a reasonable cost
 - Material delivery scheduling



- Public relations
- Risk management
- Traffic control
- Equipment preparation, calibration and maintenance
 - Asphalt distributors
 - Chip spreaders
 - Trucks
 - Rollers
- Constructing a Chip Seal
 - Stock pile operations
 - Trucking
 - Asphalt application
 - Chip application
 - Rolling
 - Clean up
- Weather conditions
 - Rain
 - Cool weather
 - Late season sealing
 - Hot weather sealing
- Cost management
 - Special emphasis on chip seal costs and strategies to reduce costs.

For further information contact Judy McDonald, Training Program Coordinator, at (360) 705-7355 or McdonJT@wsdot.wa.gov.

